



Passive Components > Resistors > Surface Mount Resistors



Resistor Type: **General Purpose Resistor**

Element Type: **Thick Film**

Package Size Code: **0805**

Power Rating: **.125 W**

Resistance Value: **82 Ω**

Features

Product Type Features

|                   |                          |
|-------------------|--------------------------|
| Resistor Type     | General Purpose Resistor |
| Element Type      | Thick Film               |
| Package Size Code | 0805                     |

Configuration Features

|                     |   |
|---------------------|---|
| Number of Resistors | 1 |
|---------------------|---|

Electrical Characteristics

|                             |           |
|-----------------------------|-----------|
| Operating Voltage           | 150 V     |
| Power Rating                | .125 W    |
| Resistance Value            | 82 Ω      |
| Resistance Class            | Up to 1kΩ |
| Passive Component Tolerance | 1 %       |

Termination Features

|                                         |        |
|-----------------------------------------|--------|
| Surface Mount Resistor Termination Type | Solder |
| Number of Terminations                  | 2      |

Dimensions

|                |                 |
|----------------|-----------------|
| Product Height | .55 mm[.022 in] |
| Product Length | 2 mm[.079 in]   |



|               |                  |
|---------------|------------------|
| Product Width | 1.25 mm[.049 in] |
|---------------|------------------|

Usage Conditions

|                         |             |
|-------------------------|-------------|
| Temperature Coefficient | ±200 ppm/°C |
|-------------------------|-------------|

Packaging Features

|                  |                |
|------------------|----------------|
| Packaging Method | Taped & Reeled |
|------------------|----------------|

Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

|                                               |                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant with Exemptions                                                                                                       |
| EU ELV Directive 2000/53/EC                   | Compliant with Exemptions                                                                                                       |
| China RoHS 2 Directive MIIT Order No 32, 2016 | Restricted Materials Above Threshold                                                                                            |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JUNE 2024 (241)<br>Candidate List Declared Against: JUNE 2023 (235)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                  |
| Solder Process Capability                     | Reflow solder capable to 260°C                                                                                                  |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts

CRGCQ0805F82R

General Purpose Resistor, Thick Film, 0805, .125 W, 82 ohm, 1 %, ±200 ppm/°C, Solder, 2 Termination, Height .55 mm [.022 in], Neohm CRGCQ



TE Part # 1-2176341-7  
CRGCQ 0805 220R 1%

TE Part # 1-2176345-2  
CRGCQ 1210 82R 1%

TE Part # 1-2176347-7  
CRGCQ 2010 220R 1%

TE Part # 2176349-4  
CRGCQ 2512 18R 1%

TE Part # 1-2176350-2  
CRGCQ 2512 68R 5%

Also in the Series | [Neohm CRGCQ](#)

Surface Mount Resistors(728)

Customers Also Bought

TE Part #2-2176070-7  
3521 120R 1% 2W

TE Part #5499922-4  
A/L UNIV HDR 20P VERT LG LAT

TE Part #1462041-3  
IMB06CGR=IM RELAY 140mW 12V HDV

TE Part #2176379-1  
RQ 0805 107R 0.1% 10PPM 5K RL

TE Part #1-2176379-6  
RQ 0805 154R 0.1% 10PPM 5K RL

TE Part #3-2176379-8  
RQ 0805 261R 0.1% 10PPM 5K RL

TE Part #3-2176379-9  
RQ 0805 267R 0.1% 10PPM 5K RL

TE Part #6-2176378-7  
RQ 0805 48R7 0.1% 10PPM 5K RL





Documents

Product Drawings

CRGCQ 0805 82R 1%

English

CAD Files

3D PDF

3D

Customer View Model

ENG\_CVM\_CVM\_1-2176341-2\_BA.2d\_dxf.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2176341-2\_BA.3d\_igs.zip

English

Customer View Model

ENG\_CVM\_CVM\_1-2176341-2\_BA.3d\_stp.zip

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

CRGCQ Data Sheet

English